CLAIMS

What is claimed is:

1. An apparatus comprising:

a buffer having at least one trigger, coupled with one of a bus and a component connected with said bus, to observe and echo at least one of signals transmitted on said bus, signals transmitted into said component and signals transmitted out of said component;

wherein said bus is one of a memory bus, a data bus, an address bus, and a control bus.

2. The apparatus as in claim 1, further comprising an observability port coupled with said buffer to receive said echoed signals, an observability bus connected with said observability port, and a diagnostic device being at least one of a logic analyzer and a bus analyzer connected with said observability bus and performing at least one of detecting said echoed signals, accessing said echoed signals and reading said echoed signals.

3. The apparatus as in claim 2, wherein said observability port is a logic observability port.

4. The apparatus as in claim 1, wherein said bus is one of a simultaneous bi-directional bus (SBD) having ternary logic levels, a single ended bus, a differential bus, an optically coupled bus, a chipset bus, a frontside bus, an input/output (I/O) bus, a peripheral component interconnect (PCI) bus, and an industry standard architecture (ISA) expansion bus.

5. The apparatus as in claim 1, wherein said buffer configured to observe and echo signals transmitted by wireless communication.

6. A method comprising:

observing and echoing at least one of signals transmitted on a bus, signals transmitted into a component and signals transmitted out of said component;

wherein said bus is one of a memory bus, a data bus, an address bus, and a control bus.

7. The method as in claim 6, further comprising:

receiving said echoed signals; and

performing at least one of detecting said echoed signals, accessing said echoed signals and reading said echoed signals.

8. The method as in claim 6, wherein said bus is one of a simultaneous bi-directional bus (SBD) having ternary logic levels, a single ended bus, a differential bus, an optically coupled bus, a chipset bus, a frontside bus, an input/output (I/O) bus, a peripheral component interconnect (PCI) bus, and an industry standard architecture (ISA) expansion bus.

9. The method as in claim 6, wherein said signals are transmitted by wireless communication.

10. A system comprising:

a memory;

an input/output (I/O) port; and

a microprocessor;

wherein said memory, said I/O port, and said microprocessor are connected by a data bus, an address bus and a control bus; and

wherein said microprocessor includes means for observing and echoing at least one of signals transmitted on a bus, signals transmitted into a component and signals transmitted out of said component.

11. The system as in claim 10, further comprising means for receiving said echoed signals, and means for performing at least one of detecting said echoed signals, accessing said echoed signals and reading said echoed signals.

12. The system as in claim 10, wherein said bus is one of a simultaneous bi-directional bus (SBD) having ternary logic levels, a single ended bus, a differential bus, an optically coupled bus, a chipset bus, a frontside bus, an I/O bus, a peripheral component interconnect (PCI) bus, and an industry standard architecture (ISA) expansion bus.

13. The system as in claim 10, wherein said signals are transmitted by wireless communication.

14. A system comprising:

a memory;

an input/output (I/O) port; and

a microprocessor;

wherein said memory, said I/O port, and said microprocessor are connected by a data bus, an address bus and a control bus; and

wherein said microprocessor includes a buffer having at least one trigger, coupled with one of said busses and a component connected with said busses, to observe and echo at least one of signals transmitted on said bus, signals transmitted into said component and signals transmitted out of said component.

15. The system as in claim 14, further comprising an observability port coupled with said buffer to receive said echoed signals, an observability bus connected with said observability port, and a diagnostic device being at least one of a logic analyzer and a bus analyzer connected with said observability bus and performing at least one of detecting said echoed signals, accessing said echoed signals and reading said echoed signals.

16. The system as in claim 15, wherein said observability port is a logic observability port.

17. The system as in claim 14, wherein said bus is one of a simultaneous bi-directional bus (SBD) having ternary logic levels, a single ended bus, a

differential bus, an optically coupled bus, a chipset bus, a frontside bus, an I/O bus, a peripheral component interconnect (PCI) bus, and an industry standard architecture (ISA) expansion bus.

18. The system as in claim 14, wherein said buffer is configured to observe and echo signals transmitted by wireless communication.